

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/065967 A1

(51) International Patent Classification⁷: **B43K 7/10**,
7/00, 1/08

Donato [IT/CH]; Via Rosée 17, CH-6987 Caslano
(CH). SANTINI, Sergio [CH/CH]; Via Fontanella 10A,
CH-6932 Breganzona (CH).

(21) International Application Number:
PCT/IB2004/004200

(74) Agent: **FIAMMENGHI-DOMENIGHETTI**, Dellina;
c/o Fiammenghi-Fiammenghi, Via San Gottardo, 15,
CH-6900 Lugano (CH).

(22) International Filing Date:
16 December 2004 (16.12.2004)

(25) Filing Language: English

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(26) Publication Language: English

(30) Priority Data:
02220/03 29 December 2003 (29.12.2003) CH

(71) Applicant (*for all designated States except US*): PRE-
MEC S.A. [CH/CH]; Via Industria, CH-6814 Cadempino
(CH).

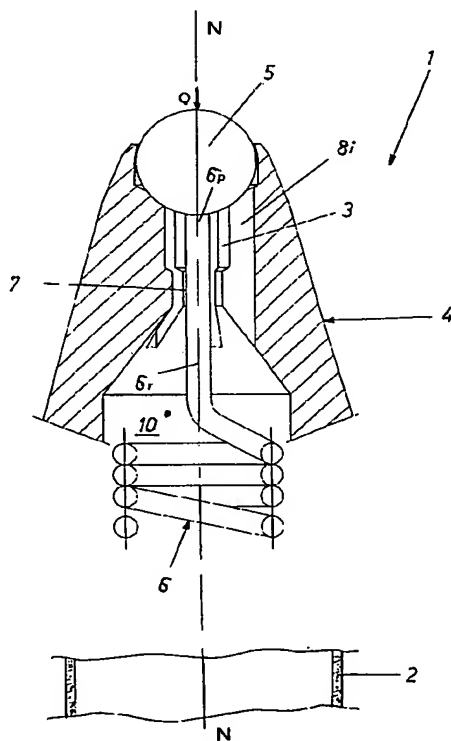
(72) Inventors; and

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,

(75) Inventors/Applicants (*for US only*): **MAROTTA**,

[Continued on next page]

(54) Title: BALL-POINT PEN WITH MEANS OF PREVENTING INCLINATION OF THE STRAIGHT PORTION OF THE
BALL-PRESSING SPRING



(57) Abstract: A ball-point pen (1) is described, said pen comprising a reservoir (2) communicating with a hole (10) connected to a capillary channel (3) of a tip (4) which is provided with a cavity (9) which seats the ball (5) for writing, this ball (5) being kept pressed against a retaining edge (9t) of the abovementioned cavity (9) as a result of the thrust of a compression resilient spring (6) terminating in a straight portion (6r) which is aligned with the longitudinal axis (N-N) of the ball-point pen (1) and the free end (6p) of which is in contact with the said ball (5). In the ball-point pen (1) according to the invention, the said capillary channel (3) has, inside it, means (7) which, coming into contact with the said straight portion (6r) of the spring (6), prevent it from becoming inclined with respect to the said longitudinal axis (N-N) of the ball-point pen (1).



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.